

31. The organism of claim 21, wherein expression of the transgene is regulated by at least one tissue-specific regulatory element.

32. The organism of claim 21, wherein the *tet* operator-linked gene is a second transgene comprising a gene of interest operably linked to at least one *tet* operator sequence.

33. The organism of claim 32, wherein the at least one *tet* operator sequence is operatively linked upstream of the second transgene.

34. The organism of claim 32, wherein the at least one *tet* operator sequence is operatively linked downstream of the second transgene.

35. The organism of claim 21, wherein the *tet* operator-linked gene is an endogenous gene that has been operatively linked to at least one *tet* operator sequence.

36. The organism of claim 21, which is selected from the group consisting of: a mouse, a cow, a sheep, a pig, or a plant.--

REMARKS

Claim 1 was originally filed in the application and has now been canceled. New claims 21-36 have been added. Accordingly, claims 21-36 are pending.

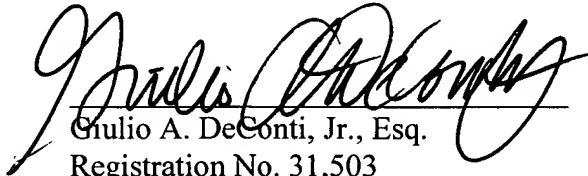
The title has been amended to more accurately reflect the subject being claimed in the application. The specification also has been amended to correct a number of minor informalities. New claims 21-36 are directed to transgenic organisms having tetracycline-regulated transcriptional regulatory systems. Support for these claims can be found in the specification at, for example, pages 17-19, 34 and 61-63.

No new matter has been added by way of the amendments to the specification or the new claims. Applicants respectfully request that these amendments be entered.

SUMMARY

All pending claims are believed to be in condition for allowance. If a telephone conversation with Applicants' Agent would expedite the prosecution of the above-identified application, the examiner is urged to call Applicants' Attorney at (617) 227-7400.

Respectfully submitted,



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